

ENZYME-MEDIATED MODIFICATION OF FIBRIN FOR TISSUE ENGINEERING

Abstract Of The Disclosure

Matrices covalently bound to bidomain peptides or proteins, produced
5 recombinantly or synthetically, contain a transglutaminase substrate domain and
a bioactive factor. The bioactive factor is preferably a growth factor, such as
VEGF, growth factors from the TGF- β superfamily, PDGF, human growth
hormone, IGF, and ephrin. Particularly preferred growth factors are TGF- β 1,
BMP 2; VEGF₁₂₁ and PDGF AB. The matrix material is crosslinkable, and may
10 form a gel. These compositions are useful for tissue repair and regeneration.